

StorageTek® L5500 Tape Library

StorageTek Tape Products

Key Business Benefits

With the StorageTek® L5500 tape library, your business will benefit from:

- > **Seamless library sharing**
StorageTek ACSLS software ensures compatibility with Legato, HP, CA, VERITAS and other backup applications to easily share libraries and maximize asset utilization.
- > **Unprecedented scalability**
Scales to an unmatched 132,000 slots and 960 drives.
- > **Mixed drive support**
Fibre Channel, SCSI and ESCON connectivity allows mixed drives and drive interfaces, including LTO Ultrium with enterprise class T9840 and T9940 tape drives.
- > **Enterprise-class reliability**
Based on StorageTek's proven PowderHorn® tape library with superior robotics and "24 x forever" reliability.
- > **A complete set of products**
Single source storage, standardized media and maintenance saves money and resources.

Consolidate large open systems tape storage with nearly infinite scalability

Consolidating your tape libraries is the way to deal with the triple threat of fast-growing information, tighter budgets and leaner IT staffs. And the StorageTek® L5500 enterprise class, industry-proven tape library is the right library for the job.

The largest of StorageTek's series of open systems library products, the L5500 can scale up to 16.8 PB (native). It is virtually impossible to outgrow this library's capacity — or throughput of over 100 TB per hour. And its very affordable cost gets even better as you grow.

The L5500 tape library also supports a mix of high-performance drives. Along with ensuring high throughput to shrink backup windows and increase availability, it can be fine-tuned to changing business needs and a variety of applications.

Add StorageTek's ACSLS software and you can create an environment with multiple backup applications running across a variety of servers simultaneously and seamlessly. There's just one consolidated system to manage and one call to make for worldwide support.

With the L5500 tape library's scalability, connectivity, reliability and simplified management, you can consolidate your tape storage today, grow tomorrow and be assured of a clear path to your future. It's a proven fact.



StorageTek L5500 tape library

The largest Open Systems LTO tape library in the industry. The L5500 is the right library for your storage consolidation needs, satisfying your rapid data growth, your shortage of IT personnel, your tight IT budget, your shrinking backup window, while providing you with "24 x forever" reliability.

L5500 tape library specifications

Functional data			
Number of cartridge slots	1500, 2000, 2500, 3000, 3500, 4000, 4500, 5000 or 5500 per library storage module (LSM) for configurations supporting only LTO Ultrium or 1,000 T9x40 and 1,000 LTO Ultrium or 1,500 T9x40 and 1,500 LTO Ultrium or 2,000 T9x40 and 2,000 LTO Ultrium or 3,500 T9x40 and 2,000 LTO Ultrium or 2,000 T9x40 and 3,500 LTO Ultrium Up to 132,000 per automated cartridge system (24 LSMs) under ACSLS control		
Number of tape drives/types	Up to four drive frames per LSM (standalone) Up to two drive frames per LSM in a dense pack configuration Each drive frame can be any of the following: One to twenty T9x40 drives per drive frame One to twenty LTO Ultrium drives per frame One to twenty T9x40/LTO Ultrium drives per frame with a maximum of seventeen T9x40 drives in a mixed media frame		
Capacity and performance			
Capacity, native (uncompressed) (maximum configurations)	<table border="0"> <tr> <td>Single LSM: T9840B (3,500 carts, 20 GB/cart) – 70 TB T9940B (3,500 carts, 200 GB/cart) – 700 TB LTO Gen1 (5,500 carts, 100 GB/cart) – 550 TB LTO Gen2 (5,500 carts, 200 GB/cart) – 1,100 TB</td> <td>24 LSMs: T9840B (84,000 carts, 20 GB/cart) – 1,680 TB T9940B (84,000 carts, 200 GB/cart) – 16,800 TB LTO Gen1 (132,000 carts, 100 GB/cart) – 13,200 TB LTO Gen2 (132,000 carts, 200 GB/cart) – 26,400 TB</td> </tr> </table>	Single LSM: T9840B (3,500 carts, 20 GB/cart) – 70 TB T9940B (3,500 carts, 200 GB/cart) – 700 TB LTO Gen1 (5,500 carts, 100 GB/cart) – 550 TB LTO Gen2 (5,500 carts, 200 GB/cart) – 1,100 TB	24 LSMs: T9840B (84,000 carts, 20 GB/cart) – 1,680 TB T9940B (84,000 carts, 200 GB/cart) – 16,800 TB LTO Gen1 (132,000 carts, 100 GB/cart) – 13,200 TB LTO Gen2 (132,000 carts, 200 GB/cart) – 26,400 TB
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Throughput per hour, native (uncompressed) (maximum configurations)	<table border="0"> <tr> <td>Single LSM: T9840B (80 drives, 19 MB/sec) – 5.5 TB/hr T9940B (80 drives, 30 MB/sec) – 8.6 TB/hr LTO Gen1 (80 drives, 15 MB/sec) – 4.3 TB/hr LTO Gen2 (80 drives, 30 MB/sec) – 8.6 TB/hr</td> <td>24 LSMs: T9840B (960 drives, 19 MB/sec) – 65.7 TB/hr T9940B (960 drives, 30 MB/sec) – 103.7 TB/hr LTO Gen1 (960 drives, 15 MB/sec) – 51.8 TB/hr LTO Gen2 (960 drives, 30 MB/sec) – 103.6 TB/hr</td> </tr> </table>	Single LSM: T9840B (80 drives, 19 MB/sec) – 5.5 TB/hr T9940B (80 drives, 30 MB/sec) – 8.6 TB/hr LTO Gen1 (80 drives, 15 MB/sec) – 4.3 TB/hr LTO Gen2 (80 drives, 30 MB/sec) – 8.6 TB/hr	24 LSMs: T9840B (960 drives, 19 MB/sec) – 65.7 TB/hr T9940B (960 drives, 30 MB/sec) – 103.7 TB/hr LTO Gen1 (960 drives, 15 MB/sec) – 51.8 TB/hr LTO Gen2 (960 drives, 30 MB/sec) – 103.6 TB/hr
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Library features			
Cartridge Access Port (CAP)	Standard, 80-cartridge capacity		
Digital vision system	Unique digital vision system performs continuous calibration and reads bar codes		
Operator panel	User-friendly configuration, diagnostic controls and status display		
Pass Through Port (PTP)	Up to four PTPs per LSM		
Library product/performance enhancements			
Audit time			
AutoClean	Library or software-initiated tape drive cleaning uses the dedicated cleaning cartridge slot		
Automatic self discovery	Self configuring for cells, drives and CAPs		
Average cell to drive time	6.25 sec		
Continuous automation calibration	No periodic maintenance or alignment required		
L-Series Library Admin			
Maintenance	No periodic maintenance required		
Media management	Partitioned between LTO Ultrium and T9840/T9940		
Non-disruptive serviceability	Redundant robotic hands Redundant AC input (optional) Redundant library management units (optional)		
Robotics control interfaces	TCP/IP (IEEE 802.3, 10baseT, half-duplex) or RS423 ACSLs host software control		
Reliability			
Mean Exchanges/Swaps Between Failures (MEBF/MSBF)	1,000,000		
Mean Time Between Failures (MTBF)	37,000 hr (full operation)		
Mean Time to Repair (MTTR)	<30 minutes		
Physical data			
Dimensions (W x H x D)			
Library storage module (5510)	128 in diameter across flats of walls x 92.5 in high (325 cm diameter x 234.9 cm high)		
Library control unit (5511)	15.4 in x 63.5 in x 22.9 in (39.0 cm x 161.3 cm x 58.1 cm)		
Library management unit (5530)	29 in x 37 in x 24 in (74 cm x 94 cm x 60 cm)		
Weight			
Library storage module (5510)	5400 lb (2449 kg) unloaded		
Library control unit (5511)	300 lb (136 kg)		
Library management unit (5530)	215 lb (98 kg)		
Environmental data			
Temperature			
Operating	+60° F to +90° F (+16° C to +32° C)		
Non-operating	+40° F to +90° F (+4° C to +32° C)		
Humidity			
Operating	20% to 80%		
Non-operating	10% to 90%		
Power source			
Power input	220/240VAC @ 50/60 Hz single phase		
Power consumption			
Library (maximum/does not include drives)			
Library storage module (5510) and library control unit (5511)	8.4A @ 180 VAC (200 VAC nominal) or 1.1 kW, 3,750 BTU/hr		
Library management unit (5530) Drives	4A @ 180VAC (200 VAC nominal) or 0.6 kW, 2,050 BTU/hr Drive power consumption varies. Refer to individual drive specification sheets		
Agency certifications			
Safety	CSA standard CAN/CSA-C22.2, no. 950-95; UL Listed to UL 1950, 3rd Edition; GS licensed to EN 60950, 2nd Edition, 1991 + A1, A2, A3, A4 CB test certified		
Emissions	FCC #47, Part 15, Subpart B, Class A; VCCI Class A European Union CE emissions standards AS/NZS 3548:1996 (Australia, N.Z.); ICES-003 (Canada)		
Immunity	European Union CE immunity standards		

About StorageTek

StorageTek (NYSE:STK), a \$2 billion worldwide company with headquarters in Louisville, Colo., delivers a broad range of storage solutions that are easy to manage, integrate well with existing infrastructures and allow universal access to data across servers, media types and networks. StorageTek provides practical and safe storage solutions in disk, networking, services, tape and tape automation. For more information, see www.storageitek.com, or call **1.800.786.7835**.

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Specifications/features may change without notice.

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StorageTek Equipment is manufactured from new parts, or new and used parts. In some cases, StorageTek Equipment may not be new and may have been previously installed. Regardless, StorageTek's standard warranty terms (as set forth at <http://www.storageitek.com/warranties/>) apply, unless the Equipment is specifically identified by StorageTek as "used" or "refurbished."

Replacement parts provided under warranty or any service offering may be either new or equivalent-to-new, at StorageTek's option.

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